

immobilized in independent areas on a surface of a substrate thereby to produce the DNA chip, comprising the steps of:

receiving the type and the set number of a DNA chip through a communication network;

setting an arrangement of nucleic acid probes in individual areas of said DNA chip;

creating a display screen by displaying a drawing showing the nucleic acid probes and probe property data at individual nucleic acid probe positions on a screen;

sending said display screen through said communication network for confirmation; and

accepting an order for production by sending a confirmed screen display through said communication network.

14. (NEW) A method of accepting commissioned production of at least one DNA chip, wherein nucleic acid probes having specific base sequences are immobilized in independent areas on a surface of a substrate thereby to produce the DNA chip, comprising the steps of:

receiving the type and the set number of a DNA chip through a communication network;

setting an arrangement of nucleic acid probes in individual areas of said DNA chip;

creating a display screen by displaying a drawing showing the nucleic acid probes and probe property data at individual nucleic acid probe positions on a screen;

sending said display screen through said communication network for confirmation;

providing price information from a memory device for storing the price information; and

accepting an order for production by sending a confirmed screen display through said communication network.

15. (NEW) A method of accepting commissioned production of at least one DNA chip, wherein nucleic acid probes having specific base sequences are immobilized in independent areas on a surface of a substrate thereby to produce the DNA chip, comprising the steps of:

receiving the type and the set number of a DNA chip through a communication network;

setting an arrangement of nucleic acid probes in individual areas of said DNA chip;

creating a display screen by displaying a drawing showing the nucleic acid probes and probe property data at individual nucleic acid probe positions on a screen;

sending said display screen through said communication network for confirmation;

accepting an order for production based on a confirmed screen display through said communication network;

calculating the delivery date while comparing content of the order, an inventory status, and a production schedule with one another; and

providing the delivery information through said communication network.

16. (NEW) A method of accepting commissioned production of at least one DNA chip, wherein nucleic acid probes having specific base sequences are immobilized in independent areas on a surface of a substrate thereby to produce the

DNA chip, comprising the steps of:

receiving the type and the set number of a DNA chip through a communication network;

setting an arrangement of nucleic acid probes in individual areas;

creating a display screen by displaying a drawing showing the nucleic acid probes and control conditions at individual nucleic acid probe positions on a screen;

sending said display screen through said communication network for confirmation; and

accepting an order for production and analysis by sending a confirmed screen display through said communication network.

17. (NEW) A method of accepting commissioned production of at least one DNA chip, wherein nucleic acid probes having specific base sequences are immobilized in independent areas on a surface of a substrate thereby to produce the DNA chip, comprising the steps of:

receiving the type and the set number of a DNA chip through a communication network;

setting an arrangement of nucleic acid probes in individual areas;

creating a display screen by displaying temperatures of said individual areas and temperature control conditions on a screen;

sending said display screen through said communication network for confirmation; and

accepting an order for production and analysis by sending a confirmed screen display through said communication network.

18. (NEW) A method of accepting commissioned production of at least one DNA chip, wherein nucleic acid probes having specific base sequences are

immobilized in independent areas on a surface of a substrate thereby to produce the DNA chip, comprising the steps of:

- receiving the type and the set number of a DNA chip through a communication network;

- setting an arrangement of nucleic acid probes in individual areas;

- creating a display screen by displaying temperatures of the individual areas and temperature control conditions on a screen;

- sending said display screen through said communication network for confirmation;

- accepting an order for production and analysis by sending a confirmed screen display through said communication network; and

- setting the arrangement of the nucleic acid probes in said individual areas based on a tendency of reducing dispersion of the temperatures in said individual areas.

19. (NEW) A method of accepting commissioned production of at least one DNA chip, wherein nucleic acid probes having specific base sequences are immobilized in independent areas on a surface of a substrate thereby to produce the DNA chips, comprising the steps of:

- receiving the type and the set number of a DNA chip through a communication network;

- setting an arrangement of nucleic acid probes in individual areas;

- creating a display screen by displaying temperatures of said individual areas and temperature control conditions on a screen;

- sending the display screen through said communication network for confirmation;

- accepting an order for production and analysis by sending a confirmed screen

display through said communication network; and

constituting an experiment protocol display screen by composing a nucleic acid probe arrangement screen with an experiment control condition display screen.

20. (NEW) A method of accepting commissioned production of at least one DNA chip, wherein nucleic acid probes having specific base sequences are immobilized in independent areas on a surface of a substrate thereby to produce the DNA chip, comprising the steps of:

receiving the type and the set number of a DNA chip through a communication network;

setting an arrangement of nucleic acid probes in individual areas;

creating a display screen by displaying temperatures of said individual areas and temperature control conditions on a screen;

sending the display screen through said communication network for confirmation;

accepting an order for production and analysis by sending a confirmed screen display through said communication network; and

calculating a price while referring to a probe information file, an inventory information file, an order information file, and a setting information file for nucleic acid probe arrangement.

21. (NEW) A system for accepting commissioned production of at least one DNA chip, wherein nucleic acid probes having specific base sequences are immobilized in independent areas on a surface of a substrate thereby to produce the DNA chip, comprising:

an order input device for receiving the type and the set number of a DNA chip through a communication network;

an arrangement setting device for setting an arrangement of nucleic acid probes in individual areas;

a screen device for displaying the probe arrangement and probe properties in the individual areas;

a device for sending the display screen through said communication network for confirmation; and

a device for displaying a part or all of the content of a received order.

22. (NEW) A system of accepting commissioned production of at least one DNA chip, wherein an order relating to production of a DNA chip is received from a customer, and it is required to control temperature according to melting temperature ( $T_m$ ) value of the nucleic acid probes, comprising:

an arrangement setting device for setting an arrangement of nucleic acid probes recorded in an order information file in individual areas on a chip;

a registration processing device for registering the arrangement of the nucleic acid probes in the individual areas and control conditions at individual probe positions to an image information file;

a screen display device mapping a drawing for indicating the probe arrangement and the control conditions at the individual probe positions from the image information file on individual areas on a screen for indicating a DNA chip; and

a production or analysis order accepting device for sending confirmation information using the display screen through a communication network, and accepting an order for production and analysis based on a confirmed screen display through the communication network.

23. (NEW) A system of accepting commissioned production of at least one

DNA chip, wherein an order relating to production of a DNA chip is received from a customer, and it is required to control temperature according to melting temperature ( $T_m$ ) value of the nucleic acid probes, comprising:

- an arrangement setting device for setting an arrangement of nucleic acid probes recorded in an order information file in individual areas on a chip;

- a registration processing device for registering the arrangement of the nucleic acid probes in the individual areas and control conditions at individual probe positions to an image information file;

- a screen display device mapping a drawing for indicating the probe arrangement and the control conditions at the individual probe positions from the image information file on individual areas on a screen for indicating a DNA chip;

- a production or analysis order accepting device for sending confirmation information using the display screen through a communication network, and accepting an order for production and analysis based on a confirmed screen display through said communication network; and

- a price calculation processing device for calculating a price while referring to a probe information file for storing the arrangement of the nucleic acid probes in individual areas and the control conditions at individual probe positions, an inventory information file, and the order information file.

24. (NEW) A system of accepting commissioned production of at least one DNA chip, wherein nucleic acid probes including specific base sequences are immobilized in independent areas on a surface of a substrate to produce a DNA chip or an order relating to production of a DNA chip from a customer, and it is required to control temperature according to melting temperature ( $T_m$ ) value of the nucleic acid probes, and the calculated delivery date is displayed on a screen display device, comprising:

a delivery date calculation processing device for calculating a delivery date by comparing the content of an order, a inventory status, and a production schedule with one another.

**IN THE ABSTRACT:**

Cancel the Abstract present in the application and insert in its place the new Abstract as set forth on the attached sheet.

**REMARKS**

Entry of the amendments to the specification, claims and abstract before examination of the application is respectfully requested, and early and favorable consideration of the new claims is earnestly solicited. The original claims have been slightly modified to ensure a clear description the claimed subject matter, they are presented as new claims for ease of review.

If there are any questions regarding this amendment or the application in general, a telephone call to the undersigned would be appreciated since this should expedite the prosecution of the application for all concerned.